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Dated: August 22, 2005 Signature: Mary Jane Palma
(Mary Jane D Palma)

Docket No.: ASZD-P01-837
(PATENT)**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:
Butters et al.

Application No.: 10/528612

Confirmation No.: 4145

Filed: March 21, 2005

Art Unit: 1614

For: **PROCESS AND INTERMEDIATES FOR
THE PREPARATION OF THIENOPYRROLE
DERIVATIVES**

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

Applicant has not submitted copies of each cited U.S. patent and U.S. patent application as required by 37 CFR 1.98(a)(2)(i), amended October 2004, as the U.S. Patent and Trademark Office has waived this requirement for all U.S. patent applications. Applicant submits herewith copies of foreign and non-patents in accordance with 37 CFR 1.98(a)(2).

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this

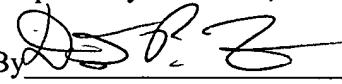
Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 18-1945, under Order No. ASZD-P01-837.

Dated: August 22, 2005

Respectfully submitted,

By 

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Substitute for form 1449A/B/PTO				Complete if Known	
				Application Number	10/528612
				Filing Date	March 21, 2005
				First Named Inventor	Michael Butters
				Art Unit	1614
				Examiner Name	Not Yet Assigned
Sheet	1	of	3	Attorney Docket Number	ASZD-P01-837

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
AA*	US-2004/0048878-A1	03-11-2004	Cai et al.		
AB*	US-2004/0220229-A1	11-04-2004	Bussolotti et al.		

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
BA	EP-1088824 A2	04-04-2001			
BB	EP-1136071 A3	03-26-2003			
BC	WO-1994/18196 A1	08-18-1994			
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BO	WO-2004/058715 A1	07-15-2004		Abstract only	
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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	CA	Adams et al., "4-Amino-4,5-dihydrothiophene-2-carboxylic acid," J. Org. Chem. 50:2730-2736 (1985)			
	CB	Binder et al., "Eine einfache herstellungsmethode fur 2-aminothiophene," Synthesis Communications 4:255-256 (1977)			
	CC	Binder et al., "Thiopen als strukturelement physiologisch aktiver substanz, 8. mitt. 1H5H-imidazo[1,2-a]thieno[3,4-d]pyrimidin-2(3H-one," Arch Pharm. 314:556-564 (1981)			
	CD	Bjork et al., "Improved syntheses of thieno[2,3- <i>b</i>]- and [3,2- <i>b</i>]-fused naphthyridines," J. Heterocyclic Chem. 32:751-754 (1995)			

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Sheet	2	of	3	Attorney Docket Number	ASZD-P01-837

CE	Boger et al., "Total synthesis of distamycin A and 2640 analogues: A solution-phase combinatorial approach to the discovery of new, bioactive DNA binding agents and development of a rapid, high-throughput screen for determining relative DNA binding affinity or DNA binding sequence selectivity," J. Am. Chem. Soc. 122:6382-6394 (2000)	
CF	Brugier et al., " α -Substitution of β -thienylcarbamates: alkylation, vinylation and Pd-catalyzed coupling reactions," Tetrahedron 56:2985-2993 (2000)	
CG	Brugier et al., "Studies on the reactivity of N-(3-thienyl)carbamates," J. Chem. Soc., Perkin Trans. 1:37-43 (2001)	
CH	Brugier et al., "Synthesis and reactivity of alkyl (4-aminothien-3-yl)carbamates," Tetrahedron 53(30):10331-10344 (1997)	
CI	Brunnett et al., "Heterocyclic amines. IV. Urethan and urea derivatives of 3-aminothiophene (1)," J. Heterocyclic Chem. 5(3):417-418 (1968)	
CJ	Carroll et al., "Competitive ortho metalation effects: the kinetic and thermodynamic lithiation of 3-(tert-Butoxycarbonyl)amino-4-caromethoxythiopene," Tetrahedron Letters 38(15):2637-2640 (1997)	
CK	Eras et al., "Reactivity of theinopyrroles. synthesis of isomeric nitro and bromothienopyrroles," J. Heterocyclic Chem. 21:215-217 (1984)	
CL	Galvez et al., "Synthesis of isomeric β -haloethylthienopyrroles," J. heterocyclic Chem., 21, 393-395 (1984)	
CM	Galvez et al., "Synthesis of thiophenedicarbonyldiazides and Di-t-butyl thiophendicarbamates," J. Heterocyclic Chem. 23:1103-1108 (1986)	
CN	Jones et al., "The vilsmeier reaction of fully conjugated carbocycles and heterocycles," Organic Reactions 49:1-39 (1997)	
CO	Kobayashi et al., "Heterocyclic sulfonyl compounds and activated blood coagulation factor X (FXa) inhibitors containing them," Chemical Abstracts XP002267904 & JP 2001 294572 (2001)	
CP	Linda et al., "The mechanism of the Vilsmeier-Haach reaction. Part III. Structural and solvent effects," J. Chem. Soc. Perkins Trans II, 1610-1612 (1974)	
CQ	Marques et al., "Toward an understanding of the chemical etiology for DNA minor-groove recognition by polyamides," Helvetica Chimica acta 85:4485-4517 (2002)	
CR	Martin et al., "Nucelar magnetic resonance investigations of carbonium ion intermediates. Part II. Exchange reactions in chloro-iminium salts (Vilsmeier-Haack reagents)," Journal Chem. Soc., Perkins Trans II 642-646 (1974)	
CS	Martin et al., "Recherches sur la reaction de vilsmeier-haack etude du mecanisme de formation du complexe par des mesures cinetiques en resonance magnetique nucleaire," Tetrahedron Letters 58:5061-5064 (1970)	
CT	Meth-Cohn et al., "A versatile new synthesis of quinolines and related fused pyridines. Part II," Tetrahedron Letters 33:3111-3114 (1979)	
CU	Meth-Cohn et al., "A versatile new synthesis of quinolines and related fuses pyridines. Part 7. The conversion of acetamidothiophens into thienopyridines," Journal Chem. Soc., Perkins Trans. I 1531-1536 (1981)	
CV	Meth-Cohn et al., "A versatile new synthesis of quinolines, thienopyridines and related fused pyridines," Tetrahedron Letters 23:2045-2048 (1978)	
CW	Meth-Cohn et al., "The preparation and formylation of 2-acetamidothiophenes," Synthesis 2:133-135 (1980)	
CX	Nakamura, "Construction of heterocyclic compounds by use of alpha-diazaphosphonates: new one-pot syntheses of indoles and isocoumarines," Organic Letters 4(14)2317-2320 (2002)	

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Substitute for form 1449A/B/PTO				Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/528612
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				First Named Inventor	Michael Butters
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CY	Rajanna et al., "Kinetics adn mechanism of vilemeier-haach synthesis of 3-formyl chromones derived from o-hydroxy aryl alkyl ketones: A structure reactivity study," Tetrahedron 52(10):3669-3682 (1996)	
CZ	Seela et al., "168. Synthesis of 2'-deoxyribofuranosides of 8-Aza-7-deazaguanine and related pyrazolo[3,4-d]pyrimidines," Helvetica Chimica Acta 69:1602-1613 (1986)	
CA1	Shinkwin et al., "Synthesis of thiophenecarboxamides, thieno[3,4-c]pyridin-4(5H)-ones and Thieno[3,4-d]pyrimidin-4(3H)-ones and preliminary evaluation as inhibitors of poly(ADP-ribose)polymerase (PARP)," Bioorganic & Medicinal Chemistry 7:297-308 (1999)	
CB1	Shvedov et al., ""2-Aminothieno '2,3-b]pyridine derivatives, Chemical Abstracts, XP002266826 & SU364613 (1973)	
CC1	Soth et al., "Recherches en serie heterocyclique. XXIX. Sur des voies d'accès à des thieno, selenolo, furo et pyrrolopyrroles," Canadian Journal of Chemistry 56(6):1429-1434 (1978)	
CD1	Stanetty et al., "Herbizide thienylharnstoffe, I," Monatshefte für Chemie 120:53-63 (1989)	
CE1	Sugiyama et al., "Condensed thienopyrimidines. IV. Synthesis and gastric antisecretory activity of 2,3-dihydro-5H-oxazolothienopyrimidine derivatives," Chemical & Pharmaceutical Bulletin 37(10):2171-2722 (1989)	
CF1	Sugiyama et al., "Condensed thienopyrimidines. 5. Studies on the thermal cyclization of various ortho-formylthiophenecarbamates with ethanolamine," Heterocycles 29(7):1317-1323 (1989)	
CG1	Szabo et al, "Experimental and theoretical study of orientation in the nitration of dithieno[3,4-b:3',4'-d]pyridine," J. Organic Chem 56:1590-1596 (1991)	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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